

ATTACHMENT 9 – PAST PERFORMANCE

Groundwater Monitoring Wells Installation Project – Sylmar Basin Los Angeles Department of Water and Power

The Los Angeles Department of Water and Power (LADWP) is currently working as lead agency with the United States Environmental Protection Agency (USEPA) and the US Army Corps of Engineers (Army Corps) to construct several groundwater monitoring wells near the Tujunga Wellfield, a wellfield owned by LADWP providing municipal water supply to the City of Los Angeles. TJ-MW-06 is the first of these monitoring wells and was constructed over a three to four month period and completed in July 2012. Weston Solutions, Inc. provided consulting Professional Geologists who managed all field activities and provided technical guidance for the construction of TJ-MW-06. Planning and coordination with the Army Corps is ongoing for the construction of additional monitoring wells in the vicinity of the Tujunga Wellfield.

The scope of TJ-MW-06 included the following items:

- 1) Drilling an 8-inch diameter pilot borehole to a depth of 1,400 feet using air rotary and direct mud rotary methods.
- 2) Collecting and analyzing in-situ groundwater samples using Simulprobe equipment during the pilot borehole drilling process.
- 3) Classifying and performing sieve analysis on soil cuttings.
- 4) Performing geophysical analysis on the pilot borehole.
- 5) Reaming the pilot borehole to 18-inches and a final depth of 906 feet.
- 6) Installing six PVC well casings in a nested configuration to three “sample zones”.
- 7) Performing well development to remove the drilling mud and fluid from the screened interval of each well casing.
- 8) Installing transducers and data loggers for recording piezometric pressure head from each of three “sample zones”.
- 9) Installing dedicated water quality sampling pumps in each of three “sample zones”.
- 10) Installing sanitary seals, annular seals, and monitoring well cover.
- 11) Collecting and analyzing samples of solid waste and wastewater for characterization and disposal purposes. Disposing wastes to appropriate disposal sites.
- 12) Project management, public outreach, permitting, and preparation of work plans, health and safety plans, sampling and analysis plan, and a well completion report.

LADWP has extensive prior experience constructing groundwater monitoring wells of the type proposed for funding under the Local Groundwater Assistance Program. The following provides a brief summary of a few select projects:

- 1) Remedial Investigation, 1989 to 1990: LADWP worked as lead agency with USEPA to construct 80 monitoring wells for a comprehensive study of groundwater contamination affecting the San Fernando Basin. Designation of the San Fernando Basin as a USEPA Superfund site resulted from this comprehensive study. Computer simulation models of the groundwater basin were created and are in continual use by USEPA and LADWP. USEPA routinely publishes water quality data and groundwater contamination plume maps using data collected from these wells.
- 2) Tujunga Wellfield Groundwater Monitoring Wells, 1992 to 1993: LADWP contracted and managed the construction of four groundwater monitoring wells installed in areas near the Tujunga Wellfield.
- 3) East Valley Groundwater Monitoring Wells, 1997: LADWP contracted and managed the construction of 10 groundwater monitoring wells in areas near the Hansen Spreading Grounds.

The Los Angeles Department of Water and Power (LADWP) also has an established history of receiving grants from the California Department of Water Resources (DWR) for a variety of different projects:

- **Los Angeles City Park Irrigation Upgrade Program (DWR Agreement #4600004227)** – LADWP received a grant of \$362,000 from the Proposition 50 Water Use Efficiency Grant Program to implement the Los Angeles City Park Irrigation Upgrade Program. Grant funding enabled LADWP to replace manually controlled irrigation controllers with “smart irrigation” weather-sensitive controllers and to make other water use efficiency improvements at 15 parks across the City of Los Angeles. Work on this program is ongoing and is expected to be completed in Fiscal Year 2013-2014.
- **Large Landscape Smart Irrigation Program (DWR Agreement #4600004229)** – LADWP received a grant of \$183,750 from the Proposition 50 Water Use Efficiency Grant Program to implement its Large Landscape Smart Irrigation Program. Grant funding allowed LADWP to replace manually-adjusted irrigation controllers with “smart irrigation” weather-sensitive controllers at 150 large customer sites. Work on this program is complete and final reimbursements are expected to be received at the end of this calendar year.
- **Seawater Desalination Pilot Project (DWR Agreement #4600004089)** – LADWP received a grant of \$1,224,300 for the Seawater Desalination Pilot Project, which examined the technical feasibility and practicability of developing a full-scale desalination plant by utilizing existing LADWP infrastructure. Work on this project is complete and final reimbursements have been received.
- **Cooling Tower Conductivity Controller Replacement Program (DWR Agreement #460004231)** – LADWP received a grant of \$350,000 from the Proposition 50 Water Use Efficiency Grant Program to implement the Cooling Tower Conductivity Controller Replacement Program. Grant funding, in combination with incentive funding made available by the Metropolitan Water District of Southern California and LADWP’s own Technical Assistance Program, resulted in a customer rebate to offset the majority of the cost of installation more water-efficient equipment. Work on this grant is ongoing and is expected to be completed in Fiscal Year 2013-2014.
- **San Fernando Data Loggers’ Project (DWR Agreement #4600008192)** – LADWP received a grant of \$249,992 from the Local Groundwater Assistance Program to implement the San Fernando Data Loggers’ Project. Grant funding allowed LADWP to purchase and install 115 electronic data loggers in monitoring wells in the eastern portion of the San Fernando Groundwater Basin in order to improve groundwater basin operation and management.*
- **Integrated Regional Water Management Program Grants** – As a regional stakeholder and member of the Greater Los Angeles County Integrated Regional Water Management Plan’s Steering Committee, LADWP was recently selected to receive a total of \$5,500,000 in Proposition 84 grant funding for the Tujunga Spreading Grounds Enhancement Project (\$3,000,000) and the Central Los Angeles County Regional Water Recycling Project (\$2,500,000).

**As noted above, LADWP currently has an active funding agreement with DWR under the Local Groundwater Assistance Program for the San Fernando Data Loggers’ Project. The work on this project is ongoing. To date, LADWP has received 90 percent of the anticipated grant funding reimbursements; the remaining 10 percent will be received upon completion of the project. The project will be completed by 2013, as scheduled in the grant funding agreement.*